

ABSTRACT OF THE DISCLOSURE

EYE GAZE CONTROL OF DYNAMIC INFORMATION PRESENTATION

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10 A hands-free system uses eye gaze information from an
eye gaze tracking device to continuously control the rate
and direction of scrollable information presented on a
display in a natural manner. Initially, images begin
scrolling on the display at an initial rate. An eye tracking
device is used to determine the area on the display that the
user is gazing. If the gaze remains fixed near an anchor
position, this indicates that the images are scrolling at a
15 comfortable speed for the user to read the information.
However, if the gaze begins to drift towards the side of the
display where information is appearing, the scroll rate is
increased since this indicates that the text is scrolling
too slowly. Conversely, if the user's gaze is detected to
20 move toward the side of the screen where information is
disappearing, the scroll rate is decreased since this
indicates that the user is falling behind. If the user's
gaze gets too close to the side of the screen where
information is disappearing the scroll direction may be
25 reversed.